D-5-7
P93c
no.4

5-5-7
P93c
No.4

PRINCETON UNIVERSITY CONTRIBUTION TO THE GEOLOGY OF NEWFOUNDLAND.—No. 4

Department of Geolo

Table of the Geological Forma tions of the Cambrian and Ordovician Systems about Conception and Trinity Bays, Newfoundland, and their Northeastern-American and Wes stern-European Equivalents, based upon the 1912-1913 field work.

By Gi lbert van Ingen, Princeton, New Jersey,
July 9, 1914.

N. E. AMERICA			SERIES NAME	FORMATION NAME	NUMBER		KIND OF ROCK	ORE ZONE	INDEX FOSSILS	WESTERN EUROPE
				Gravel Head	K 2	Blac	k shale		Lingula fraseri, sp. n.	? Llandeilo
					K 1	Phos	phorite		Schizocrania striata, sp. n. Westonia, sp.	
							Disconformity			
				Upper Ore Bed	J 4	Ooli	ic hematite	5	Lingula leseueri Westonia Schizocrania striata, sp. n.	Upper Arenig
					J 3	San	stone and shale		Cruziana	
					J 2	Pho	phorite		Schizocrania hayesi, sp. n. Lingula, sp. Westonia, sp. Synhomalonotus chambersi, sp. n.	
							Disconformity			
			Wabana		J 1	Cha	osite slate		Hemigyraspis cantleyi, sp. n. Psilocephalus ?	
							? Disconformity ?			
				Scotia Ore Bed	H 4	Ooli	ic hematite	4	Synhomalonotus chambersi, sp. n. Boring Algae Cruziana similis	
					H 3	Grey	shale		Didymograptus nitidus Synhomalonotus chambersi Orthoceras	Middle Arenig
		Deep Kill Bed 2		Pyrite Bed	H 2	Pyrit	e nodules in gr y shale	3	Didymograptus	
					H 1	Phos	ohorite		Dictyonema wabana, sp. n.	
							Disconformity			
				Dominion Ore Bed	G 10	Oolit	ic hematite	2	Boring and other Algae Lingula hawkei	Armorican
					G 9	Sand	lstone and shale		Lingulobolus affinis Pizarroa terranovica	
				Redmond	G 8	Whi	te sandstone			
					G 7	Grits	and shales			
			Bell Island	Eastern Head	G 6	Ferr wi an	uginous sandstone th oolitic hematite d some shales	1	Obolus burrowsi, nov. Sphaerobolus fimbriatus, nov. Lingula murrayi, Billings Lingulella billingsi Lingulella bella	Lower Arenig
				Beach	G 5	Sand	lstones and shales			
				McGraw Bed	G 4	Ferr wi	uginous sandstone th oolitic hematite	0		
				Lance Cove	G 3	Sand	lstones and shales			
							Gap			
				Little Bell Island	G 2	Sand	stones		Lingulella billingsi	
				Kelly Island	G 1	Sand	stones and shales		Lingula howleyi, Matt.	
							Disconformity			
					F 6	Shal	e			
			Clarenville	Riders Brook	F 5	Grey	sandy limestone		Bellerophon randomi, nov.	Tremadoc
				Maidment	F 4	Shal	es		Niobe howelli, nov.	
				Apsey	F 3	Shal	es		Princetonia terranovica, nov. Parabolina harrieta, nov.	
					F 2	Brov	vn shales		Shumardia	
		Schaghticoke		Brown Mead	F 1	Grey	shales		Bryograptus	
	Upper		Johannian	Elliott Cove	Elliott Cove	E	Grey co thi	and black shales with e-in-cone concretions and n bedded sandstones	Olenus Orusia lenticularis Lingulella ferruginea	Lingula Flags
	Middle	St. John Group	Acadian	Manuels	Manuels	D 2	Black thi bal	, brown, and olive shales, n sandstones and kalk-llen	Paradoxides Conocoryphe Liostracus Agnostus Microdiscus	Menevian and Solva
						D 1	Phos	phorite	Lower Paradoxides	
CAMBRIAN			Hanfordian	Hanford	Hanford	C 2	Green ma	and red shale with nganiferous limestones	Protolenus Ellipsocephalus Avalonia	Upper Comley
	Lower					C 1	Phos	phorite	Radiolaria and sponges	
			Etcheminian	Smith Point	Smith Point	B 3	Red l	imestone with red shale	Hyolithes, etc.	Lower Comley
		Etcheminian		Brigus	Brigus	B 2	Red sto	shales with nodular lime-ne	Callavia broggeri Sternuella strenua	
				Bonavista	Bonavista	B 1	Red lim	and green shales with estone nodules	Coleoloides, etc.	Caerfai ?
							Unconformity			
PRECAMBRIAN	Algonkian		Keweenawan	Random	Random	A 3	Red qua	sandstones, shales and rtzites	None	Torridonian
							Unconformity			
			Huronian	Signal Hill	Signal Hill	A 2	Red glo	sandstones, with con-nerates and slates	None	
				Avalonian	Avalonian	A 1	Slates con	, tuffs, agglomerates, glomerates and lavas	Worms ?	

LIBRARY
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN